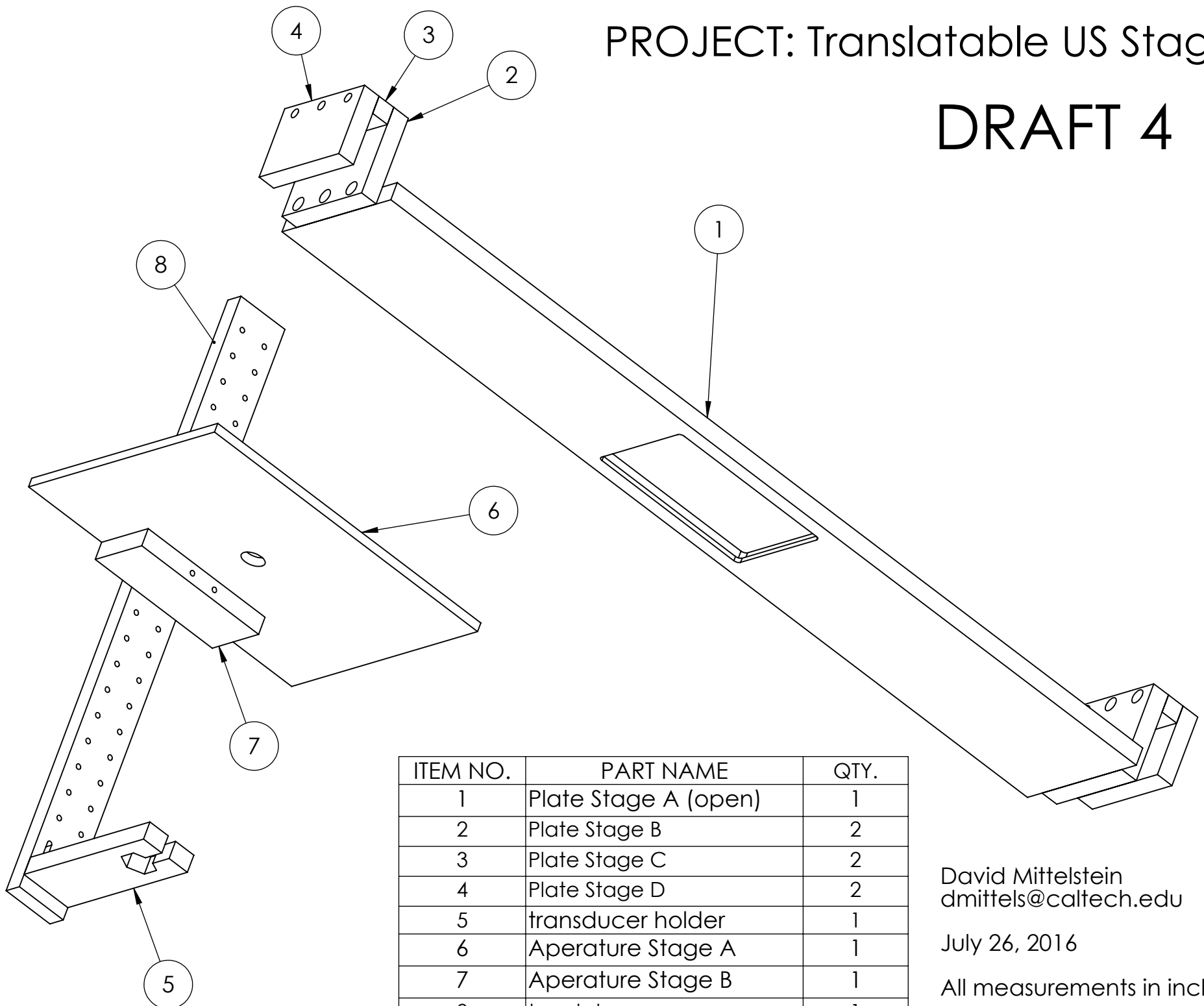


PROJECT: Translatable US Stage

DRAFT 4



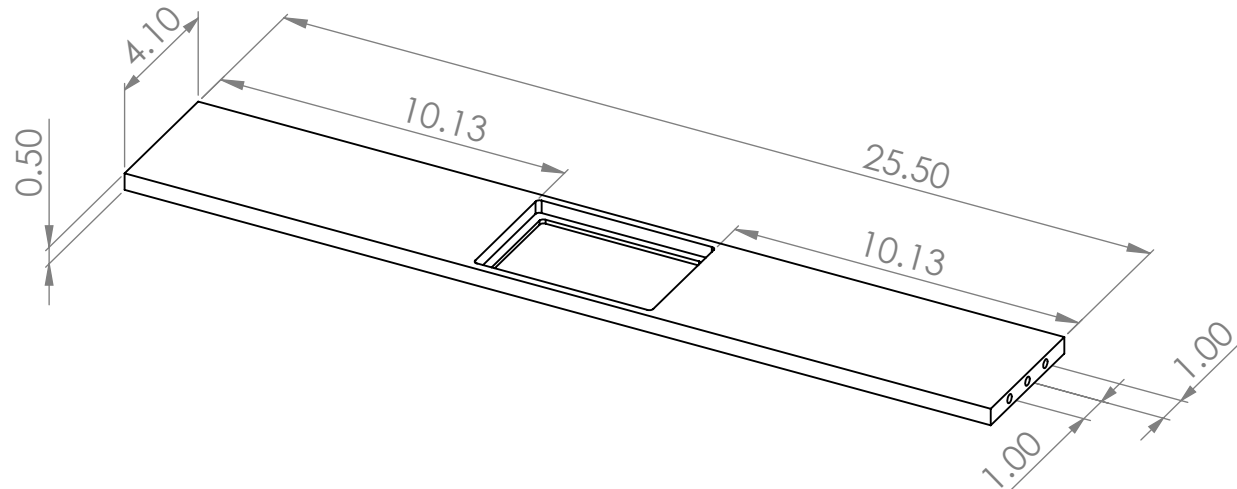
David Mittelstein
dmittels@caltech.edu

July 26, 2016

All measurements in inches

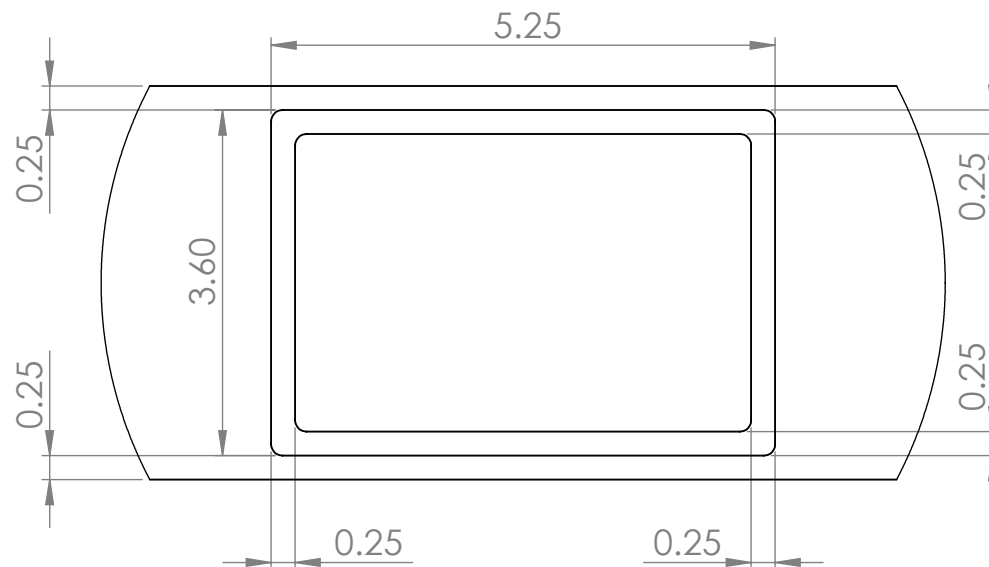
PART NAME: Stage A

QUANTITY DESIRED: 1



Threaded for 1/4"-20 screws
Depth 2", also present
on opposite side

Cut outer rectangle into the piece until 1/8" of metal remains, cut inner rectangle through all

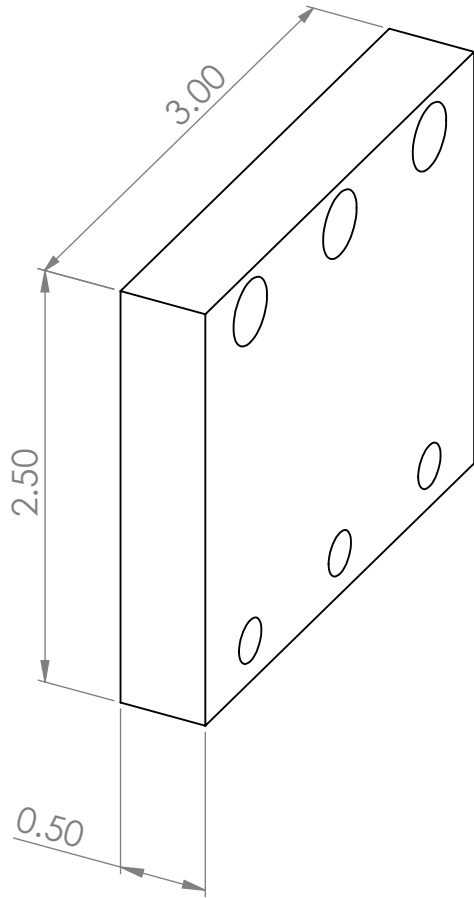


Dimensions are that corresponding
to a tissue culture plate, I
will provide the plate for your review

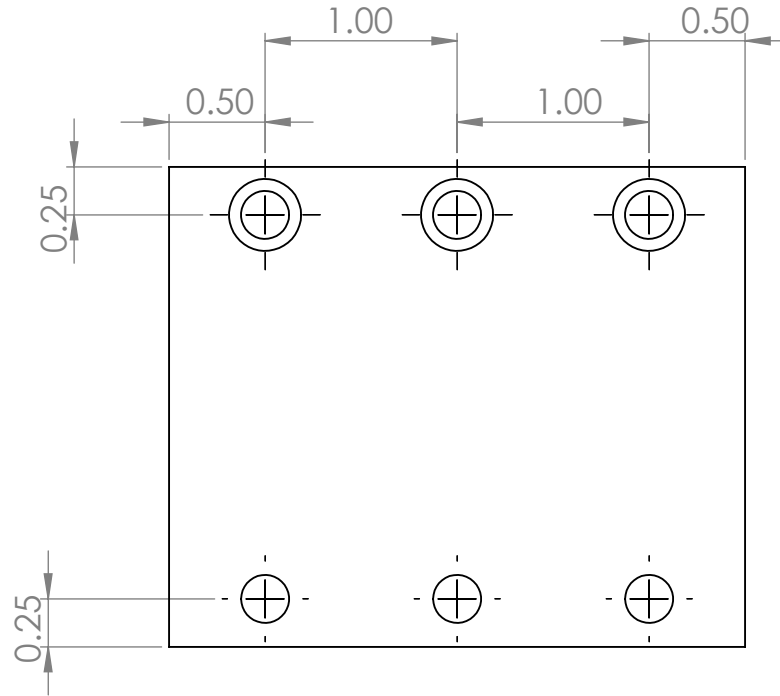
Corners on cut should be $R < 3\text{mm}$ ($< 0.11"$)

The bottom surface of this part must be smooth so that it can slide along another piece of metal

PART NAME: Stage B
QUANTITY DESIRED: 2



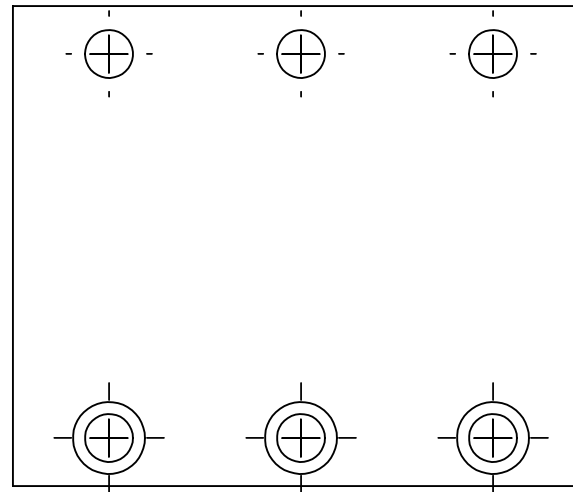
View from the Front



Top: Threaded counterbore
for screws entering
on this side

Bottom: threaded hole for
screws that entering on
opposite side

View from the Back

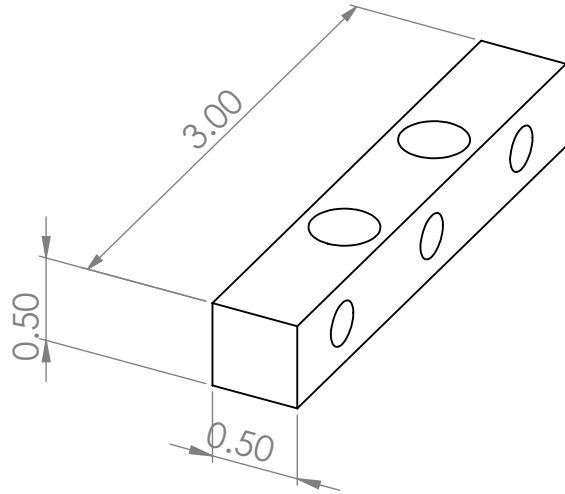


Top: threaded hole for
screws that entering on
opposite side

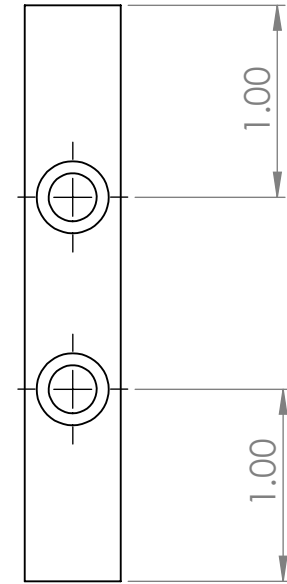
Bottom: Threaded
counterbore
for screws entering
on this side

All screws holes are threaded at 1/4"-20
Counterbores must be such that screws do not protrude past the edge of the part!

PART NAME: Stage C
QUANTITY DESIRED: 2

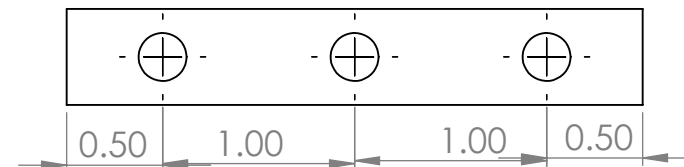


Top View:
Threaded counterbore
for screws
going through the part

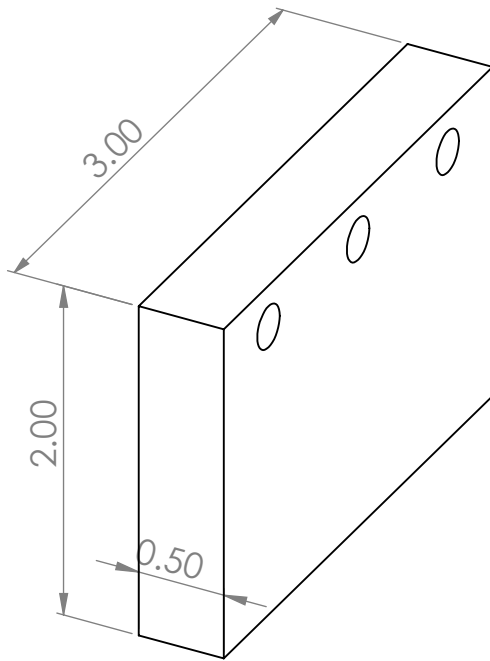


All screw holes are threaded at 1/4"-20

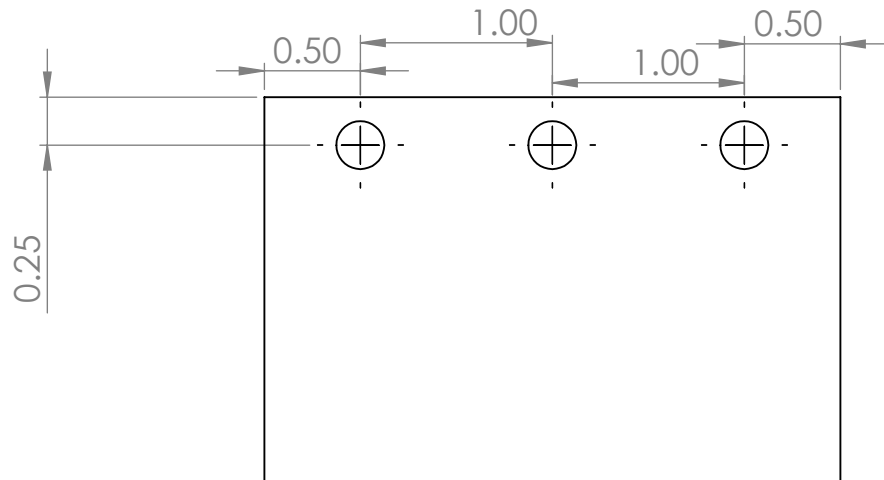
Side View:
Threaded holes for screws going through part



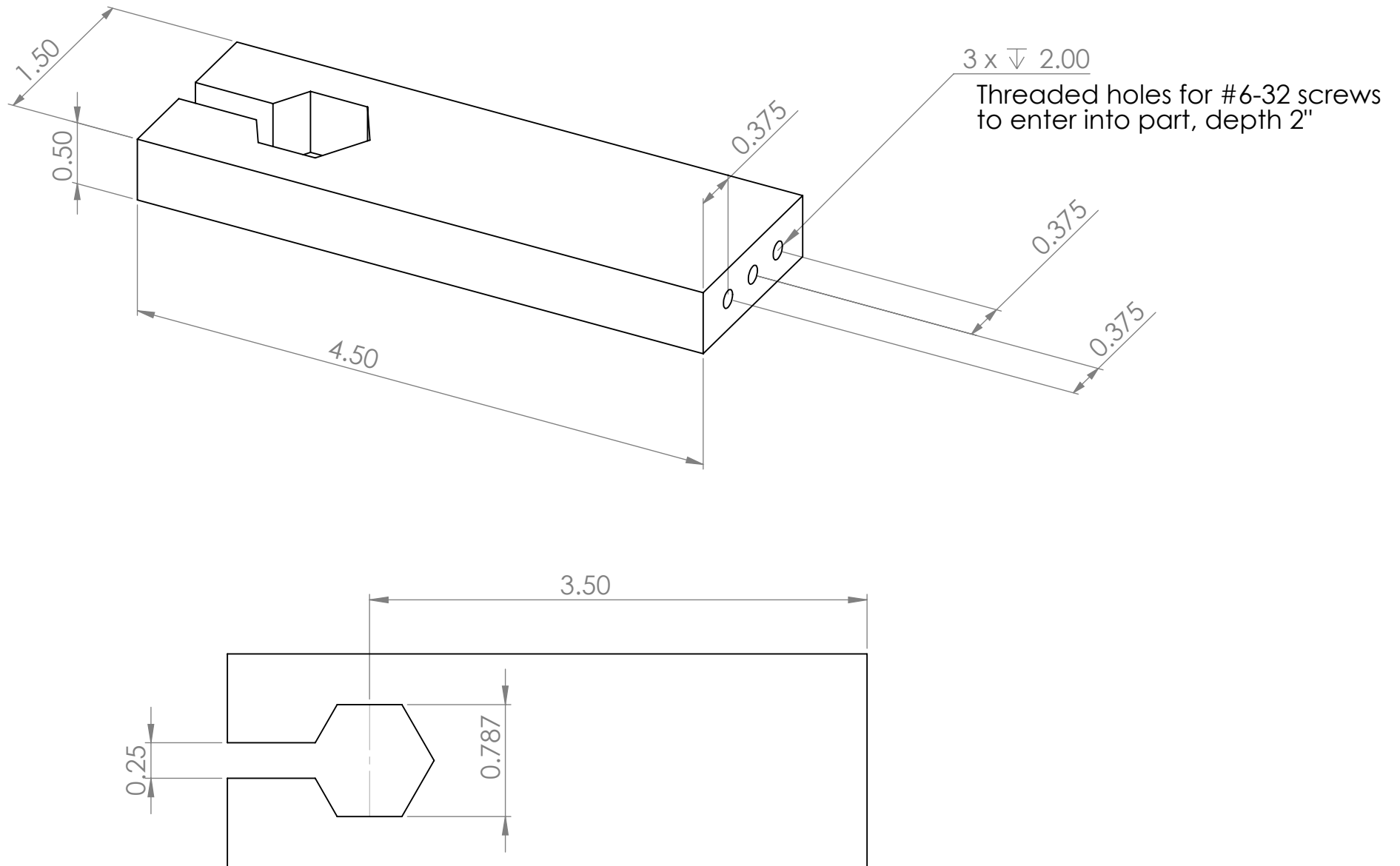
PART NAME: Stage D
QUANTITY DESIRED: 2



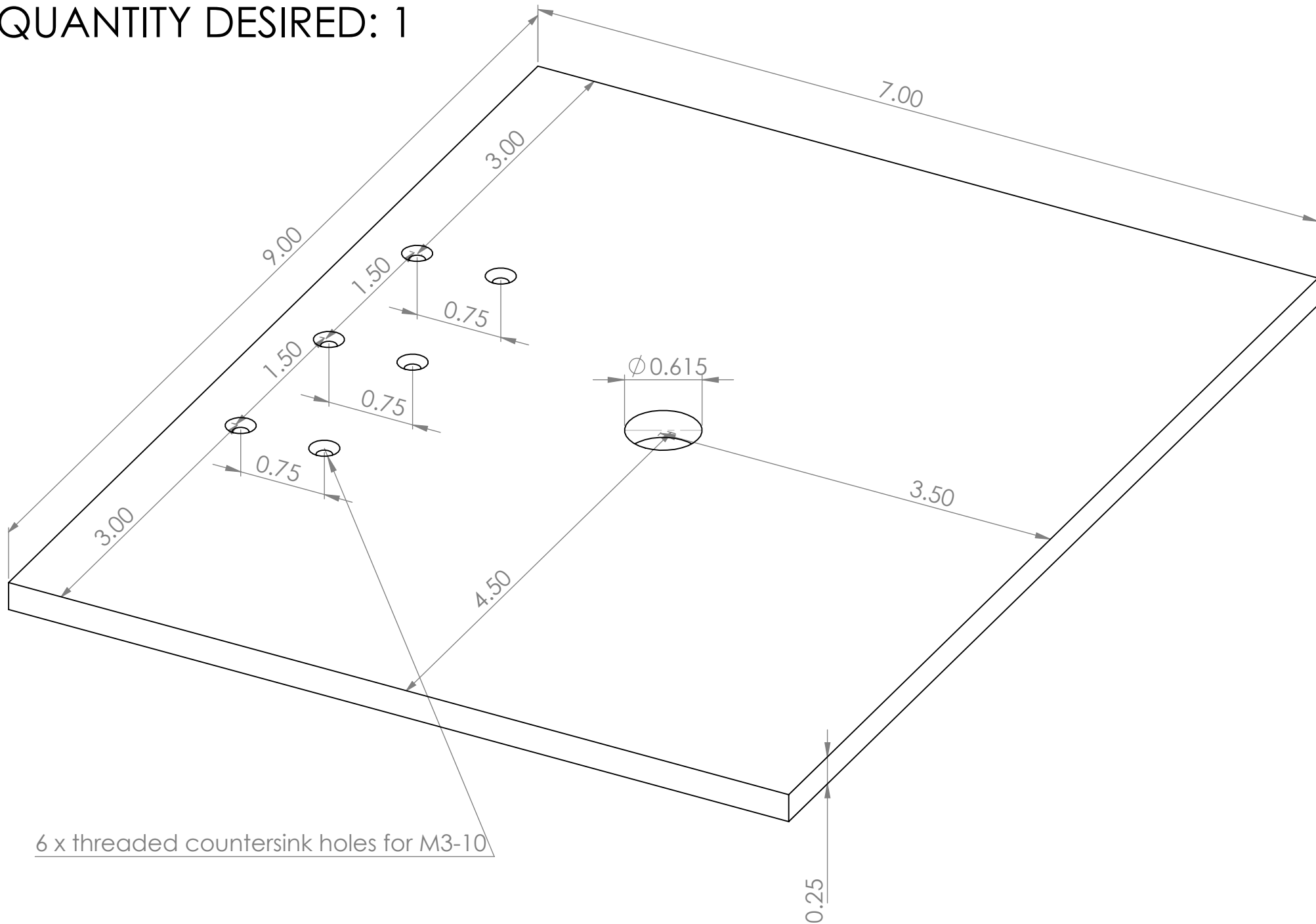
Front View: threaded holes for 1/4"-20 screws
that run through the part



PART NAME: Transducer Holder
QUANTITY DESIRED: 1

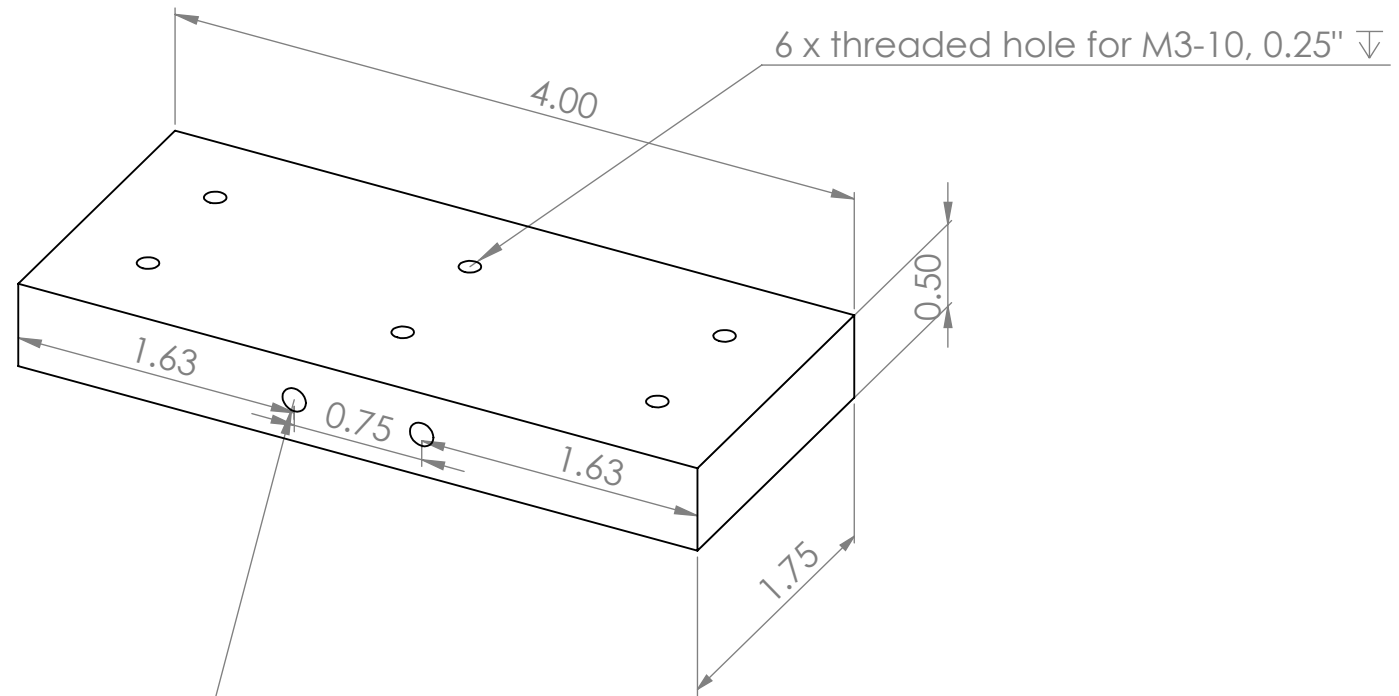


PART NAME: Aperature Stage A
QUANTITY DESIRED: 1



PART NAME: Aperature Stage B

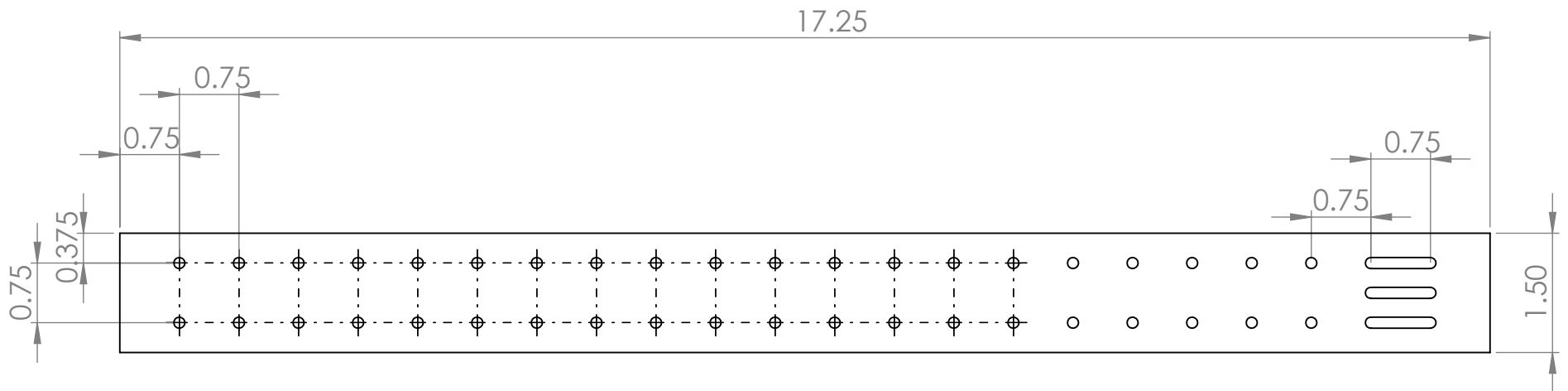
QUANTITY DESIRED: 1



2 x threaded hole for #6-32 THRU ALL

PART NAME: Translator
QUANTITY DESIRED: 1

Thickness of metal part: 0.5"



All these holes are evenly spaced, go through the part and are threaded for #6-32

These slots have the same diameter as the #6-32 holes and go through the part